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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/896,791	06/29/2001	Anders Berkenstam	13425-040001 / 00244-US	8306
23911	7590 08/23/2004		EXAMINER	
CROWELL & MORING LLP			NICKOL, GARY B	
INTELLECT P.O. BOX 14	UAL PROPERTY GRC 300	DUP	ART UNIT	PAPER NUMBER
	ON, DC 20044-4300		1642	

DATE MAILED: 08/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/896,791	BERKENSTAM ET AL.			
		Examiner	Art Unit	-		
		Gary B. Nickol Ph.D.	1642			
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with t	he correspondence address			
THE I - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	be timely filed  )) days will be considered timely. from the mailing date of this communication.  DONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 19 M	lay 2004.				
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.				
3)□	Since this application is in condition for allowal closed in accordance with the practice under E	•	'			
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) 2,3 and 22-24 is/are pending in the a 4a) Of the above claim(s) is/are withdraw Claim(s) 3 is/are allowed.  Claim(s) 2,22-24 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	wn from consideration.				
Applicati	on Papers					
9)	The specification is objected to by the Examine	er.				
10)[	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the		` '			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
Priority u	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau see the attached detailed Office action for a list	s have been received. s have been received in Appli rity documents have been rec u (PCT Rule 17.2(a)).	cation No eived in this National Stage			
Attachment	t(s)					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sumr	nary (PTO-413) ail Date			
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		nal Patent Application (PTO-152)			

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Re: Berkenstam et al.

Date of priority: 07/12/2000

Response to Amendment

The Amendment filed May 19, 2004 in response to the Office Action of January 15, 2003

is acknowledged and has been entered.

Claims 22-24 were added.

Claims 2-3, and 22-24 are currently under consideration.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a

prior Office Action.

New Rejections/Objections:

Claim 22 is objected to for reciting "wherein the polynucleotide molecule having at least

95% sequence homology" as such recitation renders the claim grammatically unclear. This

objection can be obviated by amending the claims to read, "wherein the polynucleotide molecule

has having at least 95% sequence homology".

Claim Rejections - 35 USC § 112

Claims 2, and 22-24 are rejected under 35 U.S.C. 112, first paragraph, as containing

subject matter which was not described in the specification in such a way as to reasonably

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convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The written description in this case only sets forth an isolated biologically active mammalian IPA polypeptide encoded by a polynucleotide comprising SEQ ID NO:2 and or an isolated biologically active mammalian IPA polypeptide comprising the amino acid sequence set forth as SEQ ID NO:3. Thus, the written description is not commensurate in scope with the claims that read on allelic variants of SEQ ID NO. 2 or SEQ ID NO:3.

The claims are drawn to polypeptides having at least 90% or 95% sequence identity with a particular disclosed sequence. The claims do not require that the polypeptide possess any particular biological activity, nor any particular conserved structure, or other disclosed distinguishing feature. Thus, the claims are drawn to a genus of polypeptides that is defined only by sequence identity.

To provide adequate written description and evidence of possession of a claimed genus, the specification must provide sufficient distinguishing identifying characteristics of the genus. The factors to be considered include disclosure of complete or partial structure, physical and/or chemical properties, functional characteristics, structure/function correlation, methods of making the claimed product, or any combination thereof. In this case, the only factor present in the claim is a partial structure in the form of a recitation of percent identity. Further, there is no identification of any particular portion of the structure that must be conserved. Accordingly, in the absence of sufficient recitation of distinguishing identifying characteristics, the specification does not provide adequate written description of the claimed genus.

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Vas-Cath Inc. v. Mahurkar, 19USPQ2d 1111, clearly states "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See page 1117.) The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See Vas-Cath at page 1116). As discussed above, the skilled artisan cannot envision the detailed chemical structure of the encompassed genus of polypeptides, and therefore conception is not achieved until reduction to practice has occurred, regardless of the complexity or simplicity of the method of isolation. Adequate written description requires more than a mere statement that it is part of the invention and reference to a potential method of isolating it. The compound itself is required. See Fiers v. Revel, 25 USPQ2d 1601 at 1606 (CAFC 1993) and Amgen Inc. v. Chugai Pharmaceutical Co. Ltd., 18 USPQ2d 1016.

One cannot describe what one has not conceived. See *Fiddes v. Baird*, 30 USPQ2d 1481 at 1483. In *Fiddes*, claims directed to mammalian FGF's were found to be unpatentable due to lack of written description for that broad class. The specification provided only the bovine sequence.

Therefore, only isolated polypeptides comprising the amino acid sequence set forth in SEQ ID NO: 3 or encoded by SEQ ID NO:2, but not the full breadth of the claim meets the written description provision of 35 U.S.C. §112, first paragraph. Applicant is reminded that *Vas-Cath* makes clear that the written description provision of 35 U.S.C. §112 is severable from its enablement provision (see page 1115).

All other rejections and or objections are withdrawn in view of applicant's amendments and arguments there to.

Claim 3 is allowable.

## Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary B. Nickol Ph.D. whose telephone number is 571-272-0835. The examiner can normally be reached on M-Th, 8:30-5:30; alternate Fri., 8:30-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gary B. Nickol Ph.D. Primary Examiner Art Unit 1642

GBN

GARY NICKOL PRIMARY EXAMINER

Jany Mickel